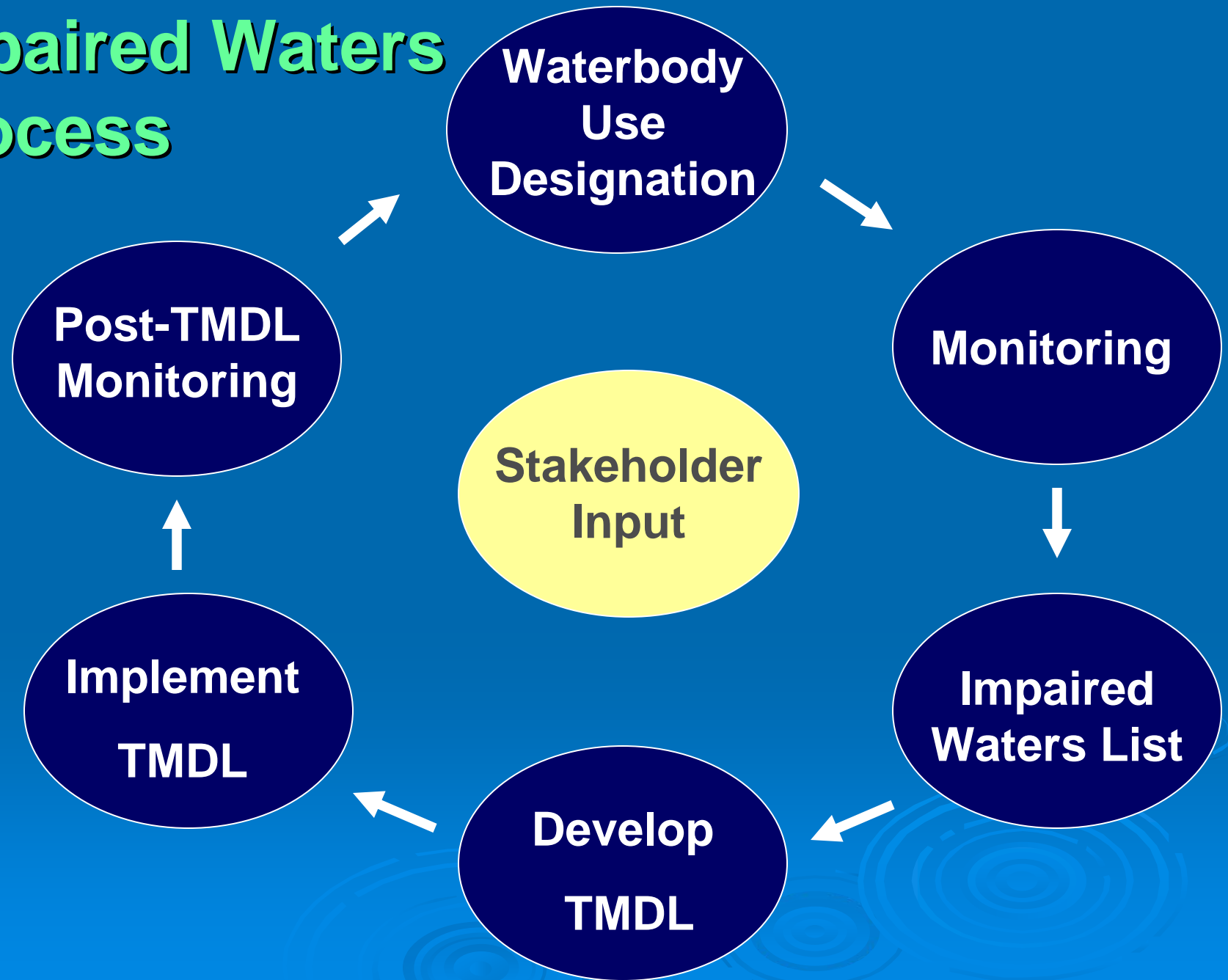# Overview of

Impaired Waters Program

and TMDLs

Rock River TMDL Information Meeting
December 12, 2006

Overview of TMDL Process

➢ Impaired Waters program

➢ What is a TMDL; how does it work?

➢ Rock River TMDL development

Impaired Waters Process

Waterbody Use Designation

Monitoring

Impaired Waters List

Develop TMDL

Implement TMDL

Post-TMDL Monitoring

Stakeholder Input

Impaired Waters "303(d) List"

➤ Based on section 303(d) of the federal Clean Water Act

➤ US EPA requires each state to have a 303 (d) List of Impaired Waters, and update that list every 2 years

➤ A TMDL Report is required for each impaired water, to address each pollutant or impairment

What is a TMDL?

➤ TMDL = <u>T</u>otal <u>M</u>aximum <u>D</u>aily <u>L</u>oad

➤ TMDL = the amount of a pollutant that a waterway can tolerate before it exceeds water quality standards

How does a TMDL work?

➢ A <u>TMDL is developed</u> for an impaired water, to calculate the allowable amount of a pollutant and allocate it between pollutant sources

➢ Once approved by EPA, the <u>TMDL is implemented</u> to reduce pollutant loads, improve water quality, and remove the impairment

TMDL = LA + WLA + MOS

Load **A**llocation
(nonpoint source)

+

Waste **L**oad **A**llocation
(point source)

+

Margin **o**f **S**afety

TMDL Development

➢ Targeted monitoring and modeling

➢ Draft report prepared by DNR

➢ Public participation and comment

➢ Final report submitted to EPA

TMDL Implementation

- ➢ Occurs after TMDL approved by EPA

- ➢ Wasteload Allocation implemented through WPDES permit program

- ➢ Load Allocation implemented through nonpoint source programs

Rock River TMDL Development

Roles

➢ **Consultants** work interactively with DNR to prepare TMDL report

➢ **DNR** manages project and submits final TMDL Report

➢ **EPA** funds project under a grant

Impaired Waters of Rock River Basin

Rock River TMDL Development

Consultants:

- The Cadmus Group, Cambridge, MA
- CDM, Chicago, IL
- Montgomery Associates-Resource Solutions, Madison

Impaired Waters of Rock River Basin

Rock River TMDL Development

Focus:

➢ Waters in the Rock River basin listed as impaired by:
  - Sediment
  - Phosphorus
  - both Sediment & P

Impaired Waters of Rock River Basin

Rock River TMDL Development

Timeline:

- ➢ TMDL Report developed in 2007
- ➢ Draft report released for public comment in 2008
- ➢ Final report to EPA for approval prior to implementation

Impaired Waters of Rock River Basin

Legend

USGS Gaging Station
- 2 Year Sampling
- Long Term Sampling
- Flow Only
- Waste Water Outfall

Impaired Stream Segment
- Sediment or TSS
- Dissolved Oxygen or Phosphorus
- Impaired Lake
- Lake or River
- County Boundary
- Rock River Basin

0   10   20 Miles

1:150,888